

incorporated into the fibers (F), fragments (FF) or particles (D). Fibrils, particles or microcapsules incorporating a biologically active ingredient may be supplied for oral or nasal administration to an animal such as a human being. - -

IN THE CLAIMS:

Cancel Claims 1-41 in the Application.

Insert new Claims 42-67 as follow:

42. (Newly submitted) A method of forming an ingestible product containing an active ingredient, the method comprising supplying a liquid containing an active ingredient to an outlet and subjecting the liquid to an electric field to cause formation of electrically charged particles of a bioresorbable or biodegradable polymer carrying the active ingredient whereby, when the particles are ingested, the polymer is degraded by chemical or enzymic attack to enable release of the active ingredient.
43. (Newly submitted) A method of forming at least partially solid material, the method comprising:
 - supplying liquid to an outlet;
 - applying a voltage to subject liquid at the outlet to an electric field to cause the liquid to form at least one jet of electrically charged liquid; and

pulsing the applied voltage to cause the jet to break up to form fiber fragments.

44. (Newly submitted) A hand holdable wound care device that enables a user to apply a dressing onto a wound surface, comprising a housing adapted to be held in a user's hand, the housing having a housing outlet, the housing containing:

a reservoir containing liquid and having a reservoir outlet;

a liquid supply tube configured to receive liquid from the reservoir outlet and having a supply tube outlet registering with the housing outlet;

a pump for pumping liquid from the reservoir along the liquid supply tube to the supply tube outlet and through the housing outlet;

a voltage source for supplying a voltage; and

user operable switch means adapted to be activated manually by the user, the housing outlet being directable by the user towards the wound surface so as to couple the voltage supplied by the voltage source to the supply tube outlet to generate an electric field to cause the liquid to form at the housing outlet at least one electrically charged jet, the jet forming a fiber that is electrostatically attracted to and deposits on the wound surface to form a mat or web of fiber providing a dressing covering the wound surface.

45. (Newly submitted) A device to produce fiber particles, which device comprises a housing having a housing outlet and containing:

a reservoir containing a liquid;

a liquid supply tube coupled to the reservoir and having a liquid tube outlet registering with the housing outlet;

a voltage source for subjecting liquid issuing from the liquid tube outlet to an electric field to cause formation of an electrically charged liquid jet; and

a voltage pulser for pulsing the voltage supplied by the voltage source to cause the liquid jet to break up into electrically charged fiber fragments or particles.

46. (Newly submitted) A device according to claim 45, further comprising an electrical discharger for at least partially discharging the electrically charged matter.

47. (Newly submitted) A method of providing a wound dressing, the method comprising:
supplying liquid to an outlet in a vicinity of the wound to be dressed;

subjecting the liquid issuing from the outlet to an electric field to cause the liquid to form at least one jet of electrically charged liquid, the liquid being such that, after formation, the at least one jet forms a charged fiber which is attracted to an area and deposits on the area or breaks up into charged fiber fragments which are attracted to and deposit onto the area; and

incorporating into the deposited mat or web cells that are configured to cause skin regrowth.

48. (Newly submitted) A method of forming a dressing for a wound, the method comprising:

subjecting liquid to an electric field at an outlet in a vicinity of the wound thereby causing the liquid to form at least one jet of electrically charged liquid, the liquid being such that, after formation, the at least one jet forms a charged fiber that is attracted to said wound and deposits onto said wound or breaks up into charged fiber fragments that are attracted to deposit onto said wound so as to form a mat or web on said wound; and

incorporating skin cells into said mat or web.

49. (Newly submitted) A method of forming a dressing for a wound, the method comprising:

subjecting a liquid to an electric field at an outlet in a vicinity of the wound to cause the liquid to form at least one jet of electrically charged liquid, the liquid being such that, after formation, the at least one jet forms a charged fiber or charged fiber fragments which is/are attracted to and deposited onto said wound to form a layer on said wound, repeating the subjecting of the liquid to form at least one further layer of fiber or fiber fragments on said layer and interspersing skin cells in or between said layers.

50. (Newly submitted) A method of promoting or controlling tissue repair in a wound, the method comprising:

subjecting liquid issuing from an outlet to an electric field to cause the liquid to form at least one jet of electrically charged liquid and from the at least one jet at least one electrically charged fiber which, by virtue of its charge, is attracted to and deposits on the wound to form a mat or web; and

incorporating into the mat or web cytokines for stimulating cytokinetic activity to promote cell activities to stimulate dendritic growth.

51. (Newly submitted) A method of providing a tissue repair promoting dressing for a wound, the method comprising:

providing a hand holdable device comprising a housing adapted to be held in the user's hand and having a housing outlet and containing a reservoir containing liquid comprising a biologically compatible polymer and having a reservoir outlet, a liquid supply tube for receiving liquid from the reservoir outlet and having a supply tube outlet registered with the housing outlet, and a voltage source for applying a voltage to generate an electric field at the supply tube outlet, the method comprising:

positioning the housing outlet 5 to 10 cm away from the wound;

activating the voltage source to cause the liquid issuing from the supply tube outlet to form at least one electrically charged fiber having a diameter in the range of 10 nanometers to 10 micrometers which fiber, by virtue of its charge, is attracted to and deposits onto the wound to form a mat or web with adjacent fiber portions being spaced apart by a gap; and

directing a spray containing an active ingredient comprising cytokines for promoting tissue repair onto the web or mat.

52. (Newly submitted) A method of promoting or controlling tissue repair, the method comprising:

controlling a supply of liquid from an outlet and subjecting the liquid issuing from the outlet to an electric field to cause the liquid to form electrically charged fibers having a diameter in a region of 10 nanometers to 10 micrometers and having a charge-to-mass ratio such that the fibers are attracted to and deposit onto the wound to form a mat or web having a controlled pattern of fibers; and

incorporating into the mat or web an active ingredient that promotes tissue repair to reduce scarring or otherwise control the sequence of events essential to natural tissue repair.

53. (Newly submitted) A method according to claim 52, which comprises incorporating the active ingredient into the mat or web by electrohydrogenatomically spraying a liquid comprising at least one tissue repair promoting active ingredient selected from a group consisting of cytokines that stimulate cytokinetic activity to promote cell activity and growth factors that include fibroblast growth factor, epithelial growth factor, transforming growth factor.

54. (Newly submitted) A method according to claim 52, which comprises incorporating the active ingredient by providing the active ingredient within the liquid supply to the liquid outlet.
55. (Newly submitted) A hand holdable device for enabling promotion of tissue repair, the device comprising a housing adapted to be held in a user's hand, the housing having a housing outlet, the housing containing:
- a reservoir containing liquid comprising a biologically compatible polymer and having a reservoir outlet;
 - a liquid supply tube for receiving liquid from the reservoir outlet and having a supply tube outlet registering with the housing outlet;
 - a voltage source for applying a voltage;
 - a spray device comprising a second reservoir containing liquid comprising an active ingredient and having an outlet for spraying liquid containing the active ingredient into the path of liquid issuing from the liquid supply tube; and
 - user operable switch means adapted to be activated by a user when the device is held in the user's hand to cause an electric field to be generated at the supply tube outlet to cause liquid from the reservoir to form at the housing outlet at least one electrically charged fiber and to cause liquid containing the active ingredient to be sprayed onto the fiber whereby, in use, the fiber is electrostatically attracted to and deposits onto the wound to form a mat or web incorporating the active ingredient sprayed by the spraying device.